

**ALUMINUM LIGHT POLE ASSEMBLY WITH 4' DAVIT BRACKET AND
TRANSFORMER BASE 40' MH
(POLARIS)**

I. Quantity

The base bid shall be for the indicated number of aluminum poles furnished and erected as hereinafter specified at locations shown on the drawings.

II. Material

The aluminum pole shall be as follows: The shaft shall be a one piece, round, tapered aluminum tube, satin ground, having a base welded to the lower end and complete with bolts, aluminum transformer base, and a 4' davit bracket. The complete unit shall be designed for wind loading of 90 miles per hour, the shaft shall have no longitudinal or circumferential welds except at the lower end joining the shaft to the base. The shaft shall be 8" x 4.5" x approximately 23'-0" with minimum wall thickness of 0.188 inch. The shaft shall have a true continuous taper except for the bottom sections which may be straight. No more than 40 per cent of the total shaft shall be straight. The top of the shaft shall be equipped with a cast aluminum removable pole top held securely in place by means of set screws. The pole shall be furnished with a two piece base cover.

The aluminum transformer base shall be 20" high, 15 1/2" square at the base and 13-1/8" square at the top. The door shall be attached to the base with a stainless steel piano hinge. The hinge shall be placed at the top of the door and attached to the base and the door with stainless steel rivets. The door shall be held in place with a tamper resistant fastener at the bottom. Each base shall be provided with four (4) loose bearing plates and nuts to fasten the base down to the anchor bolts. The transformer base shall fasten to the shaft anchor base by four (4) loose bearing plates and four (4) hot dipped galvanized hex head steel machine bolts and nuts. All bearing plates shall be hot dipped galvanized. A 1/2" -13 UNC tapped hole shall be provided for a grounding lug.

Four (4) 1" x 40" high-strength, hot dipped galvanized, steel anchor bolts, each fitted with a hex nut, shall be furnished with the pole. Each anchor bolt shall have a 4" "L" bend at the bottom end and be threaded at the top end. Threaded ends and all nuts shall be galvanized.

otherwise specifically designated in this specification shall be aluminum or stainless steel (at the option of the supplier). Pole shafts and tenons shall be tire-wrapped with a heavy water resistant paper for protection during shipment and installation.

The complete pole shall be Hapco-Division of Kearny National Inc. 40' lighting pole as per drawing No. B43, or approved equal in design, quality and performance.

All aluminum surfaces on the pole and base cover shall be rotary sanded to a satin ground finish and brackets shall be etched to a matte finish. The shaft, bracket, and transformer base shall be finished white. The finish shall be an electro-statically applied polyester or urethane powder coat, oven cured and bonded at approximately 400 degrees F, to a dry film thickness of 2-4 mils.

III. Installation

The poles and bases shall be set on the foundations and securely anchored to the anchor bolts. Base shall be properly plumbed by means of metal shims. After erection, each light pole shall be adequately grounded, and have transformer base doors fastened in place.

IV. Quotation

The aluminum poles furnished and erected as herein specified shall be paid for as a unit price each as stated in the proposal.